

FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
501323.01APPLICATION NO.
Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Randy L. SchnepferFILING DATE
Concurrently herewithGROUP ART UNIT
Not Yet Assigned

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|--------------------|-------|----------|-------------------------------|
| | AA | 5,251,303 | 10/05/93 | Fogg, Jr. et al. | 395 | 275 | |
| | AB | 5,432,907 | 07/11/95 | Picazo, Jr. et al. | 395 | 200 | |
| | AC | 5,442,770 | 08/15/95 | Barratt | 395 | 403 | |
| | AD | 5,497,476 | 03/05/96 | Oldfield et al. | 395 | 439 | |
| | AE | 5,659,798 | 08/19/97 | Blumrich et al. | 395 | 846 | |
| | AF | 5,875,352 | 02/23/99 | Gentry et al. | 395 | 843 | |
| | AG | 6,061,263 | 05/09/00 | Boaz et al. | 365 | 51 | |
| | AH | 6,073,190 | 06/06/00 | Rooney | 710 | 56 | |
| | AI | 6,105,075 | 08/15/00 | Ghaffari | 710 | 5 | |
| | AJ | 6,137,709 | 10/24/00 | Boaz et al. | 365 | 51 | |
| | AK | 6,144,587 | 11/07/00 | Yashida | 365 | 189.05 | |
| | AL | 6,167,465 | 12/26/00 | Parvin et al. | 710 | 22 | |
| | AM | 6,167,486 | 12/26/00 | Lee et al. | 711 | 120 | |
| | AN | 6,201,724 B1 | 03/13/01 | Ishizaki et al. | 365 | 49 | |
| | AO | 6,233,376 B1 | 05/15/01 | Updegrove | 385 | 14 | |
| | AP | 6,243,768 B1 | 06/05/01 | Rooney | 710 | 56 | |
| | AQ | 6,285,349 B1 | 09/04/01 | Smith | 345 | 147 | |
| | AR | 6,301,637 B1 | 10/09/01 | Krull et al. | 711 | 112 | |
| | AS | 6,327,642 B1 | 12/04/01 | Lee et al. | 711 | 120 | |
| | AT | 6,330,205 B2 | 12/11/01 | Shimizu et al. | 365 | 230.06 | |
| | AU | 6,347,055 B1 | 02/12/02 | Motomura | 365 | 189.05 | |
| | AV | 6,349,363 B2 | 02/19/02 | Cai et al. | 711 | 129 | |
| | AW | 6,356,573 B1 | 03/12/02 | Jonsson et al. | 372 | 46 | |
| | AX | 6,367,074 B1 | 04/02/02 | Bates et al. | 717 | 11 | |

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|----------------------|----|-----------------|----------|-------------------|-------|----------|-------------------------------|
| | AY | 6,373,777 B1 | 04/16/02 | Suzuki | 365 | 230.03 | |
| | AZ | 6,381,190 B1 | 04/30/02 | Shinkai | 365 | 230.03 | |
| | BA | 6,421,744 B1 | 07/16/02 | Morrison et al. | 710 | 22 | |
| | BB | 6,434,639 B1 | 08/13/02 | Haghighi | 710 | 39 | |
| | BC | 6,463,059 B1 | 10/08/02 | Movshovich et al. | 370 | 389 | |
| | BD | 6,470,422 B2 | 10/22/02 | Cai et al. | 711 | 129 | |
| | BE | 6,473,828 B1 | 10/29/02 | Matsui | 711 | 104 | |
| | BF | 6,477,614 B1 | 11/05/02 | Leddige et al. | 711 | 5 | |
| | BG | 6,477,621 B1 | 11/05/02 | Lee et al. | 711 | 120 | |
| | BH | 6,496,909 B1 | 12/17/02 | Schimmel | 711 | 163 | |
| | BI | 6,505,287 B2 | 01/07/03 | Uematsu | 711 | 170 | |
| | BJ | 6,539,490 B1 | 03/25/03 | Forbes et al. | 713 | 401 | |
| | BK | 6,552,564 B1 | 04/22/03 | Forbes et al. | 326 | 30 | |
| | BL | 6,587,912 B2 | 07/01/03 | Leddige et al. | 711 | 5 | |
| | BM | 6,594,713 B1 | 07/15/03 | Fuoco et al. | 710 | 31 | |
| | BN | 2002/0112119 A1 | 08/15/02 | Halbert et al. | 711 | 115 | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|-----------------|------|---------|-------|----------|-------------|----|
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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|--|----|---|
| | BP | Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM, Micron Technology, Inc., 2002, pp. 1-23. |
| | BQ | |

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DEC 19 2003

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ATTY. DOCKET NO.

501323.01

APPLICATION NO.

10/665,904

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|----------------------|----|-----------------|----------|-----------------|-------|----------|-------------------------------|
| | AA | 6,067,262 | 05/23/00 | Irrinki et al. | 365 | 201 | |
| | AB | 6,246,618 B1 | 06/12/01 | Yamamoto et al. | 365 | 200 | |
| | AC | 6,590,816 B2 | 07/08/03 | Perner | 365 | 200 | |
| | AD | 2003/0043426 A1 | 03/06/03 | Baker et al. | 359 | 109 | |
| | AE | | | | | | |
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| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|----------------|-------|----------|-------------------------------|
| | AA | 5,818,844 | 10/06/98 | Singh et al. | 370 | 463 | |
| | AB | 6,272,609 B1 | 08/07/01 | Jeddeloh | 711 | 169 | |
| | AC | 6,477,592 B1 | 11/05/02 | Chen et al. | 710 | 52 | |
| | AD | 6,523,092 B1 | 02/18/03 | Fanning | 711 | 134 | |
| | AE | 6,523,093 B1 | 02/18/03 | Bogin et al. | 711 | 137 | |
| | AF | 6,622,227 B2 | 09/16/03 | Zumkehr et al. | 711 | 167 | |
| | AG | 6,631,440 B2 | 10/07/03 | Jenne et al. | 711 | 105 | |
| | AH | 2002/0144064 A1 | 10/03/02 | Fanning | 711 | 144 | |
| | AI | 2003/0005223 A1 | 01/02/03 | Coulson et al. | 711 | 118 | |
| | AJ | 2003/0229770 A1 | 12/11/03 | Jeddeloh | 711 | 213 | |
| | AK | | | | | | |
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|--|----|--|--|--|--|--|--|--|
| | AQ | Intel, "Intel 840 Chipset: 82840 Memory Controller Hub (MCH)", Datasheet, October 1999, pp. 1-178. | | | | | | |
| | AR | | | | | | | |

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APR 30 2004

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|----------------------|----|-----------------|----------|----------------|-------|----------|-------------------------------|
| | AA | 6,462,978 B2 | 10/08/02 | Shibata et al. | 365 | 63 | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
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|----------------------|----|-----------------|----------|------------------|-------|----------|-------------------------------|
| | AA | 5,544,319 | 08/06/96 | Acton et al. | 395 | 200.07 | |
| | AB | 5,822,255 | 10/13/98 | Uchida | 365 | 194 | |
| | AC | 6,033,951 | 03/07/00 | Chao | 438 | 253 | |
| | AD | 6,079,008 | 06/20/00 | Clery, III | 712 | 11 | |
| | AE | 6,392,653 B1 | 05/21/02 | Malandain et al. | 345 | 501 | |
| | AF | 6,636,110 B1 | 10/21/03 | Ooishi et al. | 327 | 565 | |
| | AG | | | | | | |
| | AH | | | | | | |
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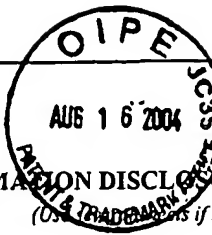
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|----------------------|----|-----------------|----------|-----------------|-------|----------|-------------------------------|
| | AA | 4,045,781 | 08/30/77 | Levy et al. | 364 | 200 | |
| | AB | 5,479,370 | 12/26/95 | Furuyama et al. | 365 | 189.12 | |
| | AC | 5,729,709 | 03/17/98 | Harness | 395 | 405 | |
| | AD | 5,875,454 | 02/23/99 | Craft et al. | 711 | 113 | |
| | AE | 6,186,400 B1 | 02/13/01 | Dvorkis et al. | 235 | 462.45 | |
| | AF | 6,243,831 B1 | 06/05/01 | Mustafa et al. | 714 | 24 | |
| | AG | 6,256,692 B1 | 07/03/01 | Yoda et al. | 710 | 104 | |
| | AH | 6,438,668 B1 | 08/20/02 | Esfahani et al. | 711 | 165 | |
| | AI | 6,681,292 B2 | 01/20/04 | Creta et al. | 711 | 119 | |
| | AJ | | | | | | |

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|--|----|---|--|--|--|--|--|--|
| | AP | "Free On-Line Dictionary of Computing" entry 'Flash Erasable Programmable Read-Only Memory, online May 17, 2004 [http://foldoc.doc.ic.ac.uk/foldoc/foldoc.cgi?flash+memory] | | | | | | |
| | AQ | | | | | | | |

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|----------------------|----|-----------------|----------|---------------------|-------|----------|-------------------------------|
| | AA | 4,240,143 | 12/16/80 | Besemer et al. | 364 | 200 | |
| | AB | 4,245,306 | 01/13/81 | Besemer et al. | 364 | 200 | |
| | AC | 4,253,144 | 02/24/81 | Bellamy et al. | 364 | 200 | |
| | AD | 4,253,146 | 02/24/81 | Bellamy et al. | 364 | 200 | |
| | AE | 4,707,823 | 11/17/87 | Holdren et al. | 370 | 1 | |
| | AF | 4,724,520 | 02/09/88 | Athanas et al. | 364 | 200 | |
| | AG | 4,930,128 | 05/29/90 | Suzuki et al. | 371 | 12 | |
| | AH | 5,241,506 | 08/31/93 | Motegi et al. | 365 | 210 | |
| | AI | 5,243,703 | 09/07/93 | Farmwald et al. | 395 | 325 | |
| | AJ | 5,269,022 | 12/07/93 | Shinjo et al. | 395 | 700 | |
| | AK | 5,317,752 | 05/31/94 | Jewett et al. | 395 | 750 | |
| | AL | 5,319,755 | 06/07/94 | Farmwald et al. | 395 | 325 | |
| | AM | 5,355,391 | 10/11/94 | Horowitz et al. | 375 | 36 | |
| | AN | 5,432,823 | 07/11/95 | Gasbarro et al. | 375 | 356 | |
| | AO | 5,461,627 | 10/24/95 | Rypinski | 370 | 95.2 | |
| | AP | 5,465,229 | 11/07/95 | Bechtolsheim et al. | 345 | 477 | |
| | AQ | 5,502,621 | 03/26/96 | Schumacher et al. | 361 | 760 | |
| | AR | 5,566,325 | 10/15/96 | Bruce, II et al. | 395 | 494 | |
| | AS | 5,577,220 | 11/19/96 | Combs et al. | 395 | 416 | |
| | AT | 5,581,767 | 12/03/96 | Katsuki et al. | 395 | 800 | |
| | AU | 5,606,717 | 02/25/97 | Farmwald et al. | 395 | 856 | |
| | AV | 5,638,334 | 06/10/97 | Farmwald et al. | 365 | 230.03 | |
| | AW | 5,715,456 | 02/03/98 | Bennett et al. | 395 | 652 | |
| | AX | 5,819,304 | 10/06/98 | Nilsen et al. | 711 | 5 | |
| | AY | 5,832,250 | 11/03/98 | Whittaker | 395 | 471 | |

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|----------------------|----|-----------------|----------|----------------------|-------|----------|-------------------------------|
| | AZ | 5,928,343 | 07/27/99 | Farmwald et al. | 710 | 104 | |
| | BA | 5,966,724 | 10/12/99 | Ryan | 711 | 105 | |
| | BB | 5,973,935 | 10/26/99 | Schoenfeld et al. | 361 | 813 | |
| | BC | 5,973,951 | 10/26/99 | Bechtolsheim et al. | 365 | 52 | |
| | BD | 5,978,567 | 11/02/99 | Rebane et al. | 395 | 200.49 | |
| | BE | 6,023,726 | 02/08/00 | Saksena | 709 | 219 | |
| | BF | 6,029,250 | 02/22/00 | Keeth | 713 | 400 | |
| | BG | 6,031,241 | 02/29/00 | Silfvast et al. | 250 | 504 R | |
| | BH | 6,061,296 | 05/09/00 | Ternullo, Jr. et al. | 365 | 233 | |
| | BI | 6,076,139 | 06/13/00 | Welker et al. | 711 | 104 | |
| | BJ | 6,098,158 | 08/01/00 | Lay et al. | 711 | 162 | |
| | BK | 6,125,431 | 09/26/00 | Kobayashi | 711 | 154 | |
| | BL | 6,134,624 | 10/17/00 | Burns et al. | 710 | 131 | |
| | BM | 6,175,571 B1 | 01/16/01 | Haddock et al. | 370 | 423 | |
| | BN | 6,185,352 B1 | 02/06/01 | Hurley | 385 | 114 | |
| | BO | 6,191,663 B1 | 02/20/01 | Hannah | 333 | 17.3 | |
| | BP | 6,247,107 B1 | 06/12/01 | Christie | 711 | 216 | |
| | BQ | 6,249,802 B1 | 06/19/01 | Richardson et al. | 709 | 200 | |
| | BR | 6,294,937 B1 | 09/25/01 | Crafts et al. | 327 | 158 | |
| | BS | 6,370,068 B2 | 04/09/02 | Rhee | 365 | 196 | |
| | BT | 6,401,213 B1 | 06/04/02 | Jeddeloh | 713 | 401 | |
| | BU | 6,405,280 B1 | 06/11/02 | Ryan | 711 | 105 | |
| | BV | 6,430,696 B1 | 08/06/02 | Keeth | 713 | 503 | |
| | BW | 6,434,696 B1 | 08/13/02 | Kang | 713 | 2 | |
| | BX | 6,434,736 B1 | 08/13/02 | Schaecher et al. | 716 | 17 | |

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|----------------------|----|-----------------|----------|---------------------|-------|----------|-------------------------------|
| | BY | 6,438,622 B1 | 08/20/02 | Haghighi et al. | 710 | 1 | |
| | BZ | 6,449,308 B1 | 09/10/02 | Knight, Jr. et al. | 375 | 212 | |
| | CA | 6,453,393 B1 | 09/17/02 | Holman et al. | 711 | 154 | |
| | CB | 6,479,322 B2 | 11/12/02 | Kawata et al. | 438 | 109 | |
| | CC | 6,490,188 B2 | 12/03/02 | Nuxoll et al. | 365 | 63 | |
| | CD | 6,501,471 B1 | 12/31/02 | Venkataraman et al. | 345 | 424 | |
| | CE | 6,594,722 B1 | 07/15/03 | Willke, II et al. | 710 | 313 | |
| | CF | 6,598,154 B1 | 07/22/03 | Vaid et al. | 712 | 237 | |
| | CG | 6,615,325 B2 | 09/02/03 | Mailloux et al. | 711 | 154 | |
| | CH | 6,628,294 B1 | 09/30/03 | Sadowsky et al. | 345 | 568 | |
| | CI | 6,629,220 B1 | 09/30/03 | Dyer | 711 | 158 | |
| | CJ | 6,646,929 B1 | 11/11/03 | Moss et al. | 365 | 194 | |
| | CK | 6,658,509 B1 | 12/02/03 | Bonella et al. | 710 | 100 | |
| | CL | 6,662,304 B2 | 12/09/03 | Keeth et al. | 713 | 400 | |
| | CM | 6,667,895 B2 | 12/23/03 | Jang et al. | 365 | 63 | |
| | CN | 6,697,926 B2 | 02/24/04 | Johnson et al. | 711 | 167 | |
| | CO | 6,718,440 B2 | 04/06/04 | Maiyuran et al. | 711 | 137 | |
| | CP | 6,721,195 B2 | 04/13/04 | Brunelle et al. | 365 | 63 | |
| | CQ | 6,724,685 B2 | 04/20/04 | Braun et al. | 365 | 233 | |
| | CR | 6,728,800 B1 | 04/27/04 | Lee et al. | 710 | 54 | |
| | CS | 6,735,679 B1 | 05/11/04 | Herbst et al. | 711 | 167 | |
| | CT | 6,735,682 B2 | 05/11/04 | Segelken et al. | 711 | 220 | |
| | CU | 6,745,275 B2 | 06/01/04 | Chang | 710 | 305 | |
| | CV | 6,751,703 B2 | 06/15/04 | Chilton | 711 | 113 | |
| | CW | 6,754,812 B1 | 06/22/04 | Abdallah et al. | 712 | 234 | |

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| FORM PTO-1449 (REV. 7-80) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 501323.01 | APPLICATION NO. 10/665,904 |
| INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i> | | APPLICANT(S) Randy L. Schnepfer | |
| | | FILING DATE September 18, 2003 | GROUP ART UNIT 2818 |

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| | CZ | 6,771,538 B2 | 08/03/04 | Shukuri et al. | 365 | 185.05 | |
| | DA | 6,775,747 B2 | 08/10/04 | Venkatraman | 711 | 137 | |
| | DB | 6,789,173 B1 | 09/07/04 | Tanaka et al. | 711 | 147 | |
| | DC | 6,792,059 B2 | 09/14/04 | Yuan et al. | 375 | 354 | |
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| | DE | 6,795,899 B2 | 09/21/04 | Dodd et al. | 711 | 137 | |
| | DF | 6,799,246 B1 | 09/28/04 | Wise et al. | 711 | 117 | |
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| | DH | 6,804,760 B2 | 10/12/04 | Williams | 711 | 170 | |
| | DI | 6,804,764 B2 | 10/12/04 | LaBerge et al. | 711 | 170 | |
| | DJ | 6,807,630 B2 | 10/19/04 | Lay et al. | 713 | 2 | |
| | DK | 6,816,947 B1 | 11/09/04 | Huffman | 711 | 151 | |
| | DL | 6,820,181 B2 | 11/16/04 | Jeddeloh et al. | 711 | 169 | |
| | DM | 6,823,023 B1 | 11/23/04 | Hannah | 375 | 296 | |
| | DN | 2001/0039612 A1 | 11/08/01 | Lee | 713 | 2 | |
| | DO | 2002/0116588 A1 | 08/22/02 | Beckert et al. | 711 | | |
| | DP | 2003/0043158 A1 | 03/06/03 | Wasserman et al. | 345 | 545 | |
| | DQ | 2003/0093630 A1 | 05/15/03 | Richard et al. | 711 | 154 | |
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| | DS | 2003/0177320 A1 | 09/18/03 | Sah et al. | 711 | 158 | |
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| | DU | 2004/0022094 A1 | 02/05/04 | Radhakrishnan et al. | 365 | 200 | |
| | DV | 2005/0071542 A1 | 03/31/05 | Weber et al. | 711 | 105 | |

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| | | | | | | | YES | NO |
| | DW | WO 93/19422 | 09/30/93 | PCT | | | | |
| | DX | WO 02/27499 A2 | 04/04/02 | PCT | | | | |
| | DY | EP0849685A2 | 06/24/98 | EP | | | | |
| | DZ | | | | | | | |
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| EC | Shanley, T. et al., "PCI System Architecture", Third Edition, Mindshare, Inc., 1995, pp. 24-25. |
| ED | |
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| EG | |
| EH | |
| EI | |
| EJ | |
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| | AB | 5,987,196 | 11/16/99 | Noble | 385 | 14 | |
| | AC | 6,715,018 B2 | 03/30/04 | Farnworth et al. | 710 | 300 | |
| | AD | 6,811,320 B1 | 11/02/04 | Abbott | 385 | 58 | |
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| | AF | 2004/0126115 A1 | 07/01/04 | Levy et al. | 398 | 116 | |
| | AG | 2004/0144994 A1 | 07/29/04 | Lee et al. | 257 | 200 | |
| | AH | | | | | | |
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| | AK | 2001265539 A | 09/28/01 | Japan (+ English Abstract) | | | X | |
| | AL | | | | | | | |
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| | AA | 6,845,409 B1 | 01/18/05 | Talagala et al. | 710 | 20 | |
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| | AC | 2004/0236885 A1 | 11/25/04 | Fredriksson et al. | 710 | 100 | |
| | AD | | | | | | |
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|----------------------|----|-----------------|----------|-------------------|-------|----------|-------------------------------|
| | AA | 5,327,553 | 07/05/94 | Jewett et al. | 395 | 575 | |
| | AB | 5,706,224 | 01/06/98 | Srinivasan et al. | 365 | 49 | |
| | AC | 6,131,149 | 10/10/00 | Lu et al. | 711 | 167 | |
| | AD | 6,219,725 B1 | 04/17/01 | Diehl et al. | 710 | 26 | |
| | AE | 6,286,083 B1 | 09/04/01 | Chin et al. | 711 | 151 | |
| | AF | 6,493,803 B1 | 12/10/02 | Pham et al. | 711 | 147 | |
| | AG | 6,564,329 B1 | 05/13/03 | Cheung et al. | 713 | 322 | |
| | AH | 6,665,202 B2 | 12/16/03 | Lindahl et al. | 365 | 49 | |
| | AI | 2004/0044833 A1 | 03/04/04 | Ryan | 711 | 5 | |
| | AJ | 2005/0044327 A1 | 02/24/05 | Howard et al. | 711 | 147 | |

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| | AA | 4,608,702 | 08/26/86 | Hirzel et al. | 375 | 110 | |
| | AB | 4,891,808 | 01/02/90 | Williams | 370 | 112 | |
| | AC | 5,748,616 | 05/05/98 | Riley | 370 | 242 | |
| | AD | 6,208,180 B1 | 03/27/01 | Fisch et al. | 327 | 141 | |
| | AE | 6,889,304 B2 | 05/03/05 | Perego et al. | 711 | 170 | |
| | AF | 6,910,109 B2 | 06/21/05 | Holman et al. | 711 | 156 | |
| | AG | 2003/0217223 A1 | 11/20/03 | Nino, Jr. et al. | 711 | 105 | |
| | AH | 2003/0227798 A1 | 12/11/03 | Pax | 365 | 189.12 | |
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